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object and collaboration and role

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[Using role components in implement collaboration-based designs-](#) [*washington.edu](#) [PDF]

M VanHilst, D Notkin - ACM SIGPLAN Notices, 1996 - portal.acm.org

... may be seen, then, not so much as collections of **objects**, but as collections of

roles. 2 An **object** participates in a **collaboration** by having a **role** in that ...

[Cited by 214](#) - [Related articles](#) - [Web Search](#) - [Bib. Direct](#) - [All 10 versions](#)

[Mixin layers: an object-oriented implementation technique for refinements and collaboration-based ...-](#) [*kislac.kr](#) [PDF]

Y Smaragdakis, D Batory - ACM Transactions on Software Engineering and Methodology (...), 2002 - portal.acm.org

... The part of an **object** that enforces the protocol that a **collaboration**

prescribes, is called the **object's role** in the **collaboration**. ...

[Cited by 182](#) - [Related articles](#) - [Web Search](#) - [Bib. Direct](#) - [All 14 versions](#)

[Awareness and coordination in shared workspaces-](#) [*tum.de](#) [PDF]

P Dourish, V Bellotti - portal.acm.org

... and presented in the same shared work space as the **object of collaboration**. ... Underlying

these mechanisms is a system of configurable **role**-assignment, which ...

[Cited by 1352](#) - [Related articles](#) - [Web Search](#) - [All 25 versions](#)

[PDF] [Discourse and collaboration: The role of conversations and collective identity](#)

C Hardy, TB Lawrence, D Grant - The Academy of Management Review, 2005 - sfu.ca

... discourse that highlights the **role** of conversations in generating discursive **objects**

that represent ... between collective identity and **collaboration** and discuss ...

[Cited by 97](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 4 versions](#)

[Implementing layered designs with mixin layers-](#) [*psu.edu](#) [PDF]

Y Smaragdakis, D Batory - Lecture Notes in Computer Science, 1998 - Springer

... The part of an **object** enforcing the protocol that a **collaboration** pre-

scribes is called the **object's role** in the **collaboration**. ...

[Cited by 202](#) - [Related articles](#) - [Web Search](#) - [Bib. Direct](#) - [All 32 versions](#)

[Object teams: Improving modularity for crosscutting collaborations-](#) [*tu-berlin.de](#) [PDF]

S Herrmann - Lecture notes in computer science, 2003 - Springer

... invokes earnCredit on its BonusItem **role** (by an after ... from the Team instance to the

subscriber **object**. Note that this **collaboration** is partially controlled by ...

[Cited by 119](#) - [Related articles](#) - [Web Search](#) - [Bib. Direct](#) - [All 25 versions](#)

[COCA: collaborative objects coordination architecture-](#) [*psu.edu](#) [PDF]

R Muntz - Proceedings of the 1998 ACM conference on Computer supported ... , 1998 - portal.acm.org

... computation, and propose COCA (CoLaborative **Object** Coordination & architecture ... developers

a du-bm **collaboration** architecture and a ... active rules for each **role** to-d ...

[Cited by 106](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

[Role model based framework design and integration-](#) [*psu.edu](#) [PDF]

D Riehle, T Gross - ACM SIGPLAN Notices, 1998 - portal.acm.org

... It focuses on a single purpose of **object collaboration**: a **role** model does not try

to encompass all possible aspects of a given **object** collabora- tion. ...

[Cited by 157](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 13 versions](#)

[Composite design patterns- *ubifab.com \(PDF\)](#)

D Riehle - ... SIGPLAN conference on **Object-oriented programming, systems, ...**, 1997 - portal.acm.org

... **Role** diagrams in turn are better suited for describing **object collaboration** based patterns than class diagrams, because they better focus on the actual problem ...

[Cited by 159](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 24 versions](#)

[On the representation of roles in object-oriented and conceptual modelling- *fernuni-hagen.de \(PDF\)](#)

F Steimann - Data & Knowledge Engineering, 2000 - Elsevier

... After discussing the major families of **role** conceptualizations, we ... including multiple and dynamic classification, **object collaboration**, polymorphism, and ...

[Cited by 240](#) - [Related articles](#) - [Web Search](#) - [All 15 versions](#)

[Policies and roles in collaborative applications- *kfupm.edu.sa \(PDF\)](#)

WK Edwards1 - portal.acm.org

... of access control rights on data **objects**, and are ... flexibly to the dynamism inherent in **collaboration**. ... a specification language for describing **roles** and policies ...

[Cited by 199](#) - [Related articles](#) - [Web Search](#) - [All 15 versions](#)

[Using C++ templates to implement role-based designs- *feu.edu \(PDF\)](#)

M VanHilst, D Notkin - **Object Technologies for Advanced Software: Second JSSST ...**, 1996 - books.google.com

... **Roles** are the elements of a **collaboration**, with each **role** encapsulating the responsibilities of a single participating class or **object** in a given **collaboration** ...

[Cited by 93](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - [All 6 versions](#)

[Evolvable programming based on collaboration-field and role model- *u-tokyo.ac.jp \(PDF\)](#)

T Tamai - Proceedings of the International Workshop on Principles of ..., 2002 - portal.acm.org

... and **roles** in our lan- guage, **collaboration** fields ere cal-Jed "contexts". Context and **role** eve declared with attributes and methods just like **object** classes. ...

[Cited by 28](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

[Role modelling for agent system analysis, design, and implementation- *unin.it \(PDF\)](#)

EA Kendall - Agent Systems and Applications, 1999 and Third International ..., 1999 - ieeeexplore.ieee.org

... subsystems of interacting **objects** that collaborate with each other to achieve goals or tasks. **Role** models are similar to UML **collaboration** diagrams [35 ...

[Cited by 171](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 15 versions](#)

[\[PDF\] Agent roles and role models: New abstractions for intelligent agent system analysis and design](#)

EA Kendall - International Workshop on Intelligent Agents in Information ..., 1999 - ciaseenx.ist.psu.edu

... A **role** model is very similar to a **collaboration** diagram in the software engineering standard UML (Unified Modelling Language), which captures **object** ...

[Cited by 25](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 2 versions](#)

[Using dynamic information for the iterative recovery of collaborations and roles- *unibe.ch \(PDF\)](#)

T Richter, S Ducasse - ... Maintenance, 2002. Proceedings, International Conference on, 2002 - ieeeexplore.ieee.org

... 3]. **Collaboration**-based or **role**-based design decomposes an **object-oriented** application into a set of collaborations between classes playing certain **roles**. ...

[Cited by 70](#) - [Related articles](#) - [Web Search](#) - [All 12 versions](#)

[\[book\] Object design: roles, responsibilities, and collaborations](#)

R Wirfs-Brock, A McKean - 2002 - Pearson Education

... behaviors How to characterize **objects** using **role** stereotypes Allocating responsibilities to appropriate **objects** Developing a **collaboration** model Strategies ...

[Cited by 112](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 4 versions](#)

[A laboratory for teaching object oriented thinking](#)

K Beck, W Cunningham - Conference on **Object Oriented Programming Systems Languages ...**, 1989 - portal.acm.org
... encourage learners to pick up the card whose **role** they are ... about, making a strong identification with the **objects** while describing their **collaboration**. ...

[Cited by 412](#) - [Related articles](#) - [Web Search](#)

[Using UML collaboration diagrams for static checking and test generation-](#) [*kfuom.edu.sa](#) (PDF)

A Abdurazik, J Offutt - Lecture notes in computer science, 2000 - Springer
... consists of ClassifierRoles, AssociationRoles, and Interac- tions [6]. A ClassifierRole defines a **role** to be played by an **Object** within a **collaboration**. ...

[Cited by 102](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 17 versions](#)

[Using UML for modeling complex real-time systems-](#) [*ucguelph.ca](#) (PDF)

B Selic, J Rumbaugh - Lecture Notes in Computer Science, 1998 - Springer
... interface. Each part of a capsule plays a particular **role** in a **collaboration** that the capsule has with other **objects**. To capture ...

[Cited by 466](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 39 versions](#)

[Object-oriented collaboration system](#)

A Schaeffer, DR Anderson, JH Palevich, LS ... - US Patent 5,448,842, 1995 - Google Patents
... 29, 1995 [54] **OBJECT-ORIENTED COLLABORATION SYSTEM** [75] Inventors: Arnold Schaeffer, Belmont; David R. Anderson, Cupertino; Jack H. Palevich, Sunnyvale; Larry S ...

[Cited by 50](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[Design patterns application in UML-](#) [*ugam.ca](#) (PDF)

G Sunye, A Le Guennec, JM Jézéquel - Proceedings of ECOOP, 2000 - Springer
... the **collaboration**'s goal. As a placeholder, a **role** is similar to a free variable or to a formal parameter of a routine. It will later be bound to an **object** ...

[Cited by 68](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 12 versions](#)

[On analysis of collaborative problem solving: An object-oriented approach](#)

N Avounis, A Dimitracopoulou, V Komis - Computers in Human Behavior, 2003 - Elsevier
... framework, can reveal complementary aspects of the development of **collaboration** and participants' **roles**, while it can be a useful **object** for evaluation of ...

[Cited by 60](#) - [Related articles](#) - [Web Search](#) - [All 6 versions](#)

[\[CITATION\] la daddy: 2-year-olds' collaboration in joint pretend with sibling and with mother](#)

J Dunn, N Dale - Symbolic play: The development of social understanding, 1994 - Academic

[Cited by 92](#) - [Related articles](#) - [Web Search](#)

[Precise modeling of design patterns-](#) [*irisa.fr](#) (PDF)

A Le Guennec, G Sunye, JM Jézéquel - Proceedings of UML, 2000 - Springer
... instances in a **collaboration** occurrence, in the limits imposed by the multiplicity of the **role**, and is then represented with a "multi-object" box, resembling ...

[Cited by 76](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 6 versions](#)

[Floor control for multimedia conferencing and collaboration-](#) [*ucsc.edu](#) (PDF)

HP Dommel, JJ Garcia-Luna-Aceves - Multimedia Systems, 1997 - Springer
... **collaboration** - Distributed applica- tion sharing - CSCW - Middleware for session orchestration - Floor control for shared multimedia **objects** ...

[Cited by 123](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 18 versions](#)

[PDF] • **Agents in object-oriented software engineering**

AF Garcia, CJP de Lucena, DD Cowan - Software: Practice and Experience, 2004 - [wile.intl.wiley.com](#)

... The first limitation is that **object-oriented** abstractions are not able to modularize agency concerns, Autonomy ... Autonomy **Collaboration** ... agency property **roles** ...

[Cited by 70](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BI Direct](#) - [All 11 versions](#)

[PDF] • **Role-based collaboration and its kernel mechanisms**

H Zhu, MC Zhou - IEEE Transactions on Systems, Man, and Cybernetics, Part C: ..., 2006 - [nipsingtu.ca](#)

... **Object** principles are one of the major groups of principles in **role-based collaboration**.

Therefore, **object-oriented** technology is the first practical tool. ...

[Cited by 31](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BI Direct](#) - [All 5 versions](#)

Roles: Conceptual abstraction theory & practical language issues. Theory and Practice of Object ... - [kfupm.edu.sa](#) [PDF]

BB Kristensen - ... Practice of Object Systems (TAPOS) on Subjectivity in **Object** ..., 1996 - [eprints.kfupm.edu.sa](#)

... The notion of a **role** of an **object** subsumes a set of proper- ties of the **object** ... Whether imposed or taken, we will say that the **object** plays the **role**. ...

[Cited by 193](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 3 versions](#)

Roles of orientation in tabletop collaboration: Comprehension, coordination and communication- [ucalgary.ca](#) [PDF]

R Kruger, S Carpendale, SD Scott, S Greenberg - Computer Supported Cooperative Work (CSCW), 2004 - Springer

... approach is wrong. It is this issue of **object** orientation and its **role** in **collaboration** that is the focus of this paper. Our goal is ...

[Cited by 34](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

Reconciling the needs of architectural description with object-modeling notations- [up.ac.za](#) [PDF]

D Garland, SW Cheng, AJ Kompanek - Science of Computer Programming, 2002 - Springer

... or connector can be captured as attributes of a class or **object** ... Profile, in which association endpoints are identified with **roles** in a **collaboration** [28]. ...

[Cited by 152](#) - [Related articles](#) - [Web Search](#) - [BI Direct](#) - [All 24 versions](#)

Access control in collaborative systems

W Tolone, GJ Ahn, T Pai, SP Hong - ACM Computing Surveys, 2005 - [portal.acm.org](#)

... of identifying specific users playing a **role** on a team at any given moment, and **object** context identifies specific **objects** re- quired for **collaboration** purposes ...

[Cited by 72](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

Tailoring as collaboration: The mediating role of multiple representations and application units- [uni-siegen.de](#) [PDF]

AI Merch, ND Mehndieiev - Computer Supported Cooperative Work (CSCW), 2000 - Springer

... 75 Tailoring as **Collaboration**: The Mediating **Role** of ... TAILORING AS **COLLABORATION** ... shows the three aspects of the Scale application unit for rectangular **objects** ...

[Cited by 77](#) - [Related articles](#) - [Web Search](#) - [BI Direct](#) - [All 5 versions](#)

Adaptive plug-and-play components for evolutionary software development- [neu.edu](#) [PDF]

M Mazini, K Lieberherr - ... SIGPLAN conference on **Object-oriented** programming, systems, ..., 1998 - [portal.acm.org](#)

... collaborations be- tween **objects**, providing a linguistic construct for ex- pressing design segments found in **collaboration-based** (**role-based**) designs [S, 28 ...

[Cited by 211](#) - [Related articles](#) - [Web Search](#) - [BI Direct](#) - [All 21 versions](#)

[PDF] • **Role= Interface: a merger of concepts**

F Steimann - JOURNAL OF OBJECT ORIENTED PROGRAMMING, 2001 - [citeseerx.ist.psu.edu](#)

... 1 In other words, a classifier **role** allows any **object** to fill its place in a **collaboration** no matter what class it is an instance of, if only this **object** ...

[Cited by 61](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BI Direct](#) - [All 5 versions](#)

Object-oriented frameworks and product-lines- *utexas.edu [PDF]

D Eatory, R Cardone, Y Smaragdakis · Software Product Lines: Experience and Research Directions: ..., 2000 - books.google.com

... The part of an **object** that enforces the protocol of a **collaboration** is called

the **object's role** in that **collaboration** (Reenskaug et al. ...

[Cited by 79](#) · [Related articles](#) · [Web Search](#) · [PL Direct](#) · [All 13 versions](#)

[BOOK] The first year of life: A psychoanalytic study of normal and deviant development of object relations

PA Spitz · 1965 · International Universities Press

[Cited by 266](#) · [Related articles](#) · [Web Search](#) · [Library Search](#)

Implementing collaboration-based designs using aspect-oriented programming

E Pulvermuller, A Speck, A Rashid · Technology of Object-Oriented Languages and Systems, 2000. ... , 2000 - ieeeexplore.ieee.org

... A **collaboration** is a co-operating collection of **roles**. An **object** can participate

in a **collaboration** if it supports the required **role**. ...

[Cited by 19](#) · [Related articles](#) · [Web Search](#) · [All 3 versions](#)

Deictic roles of external representations in face-to-face and online collaboration- *psu.edu [PDF]

D Suthers, I. Girardeau, C Hundhausen · Designing for change in networked learning environments, 2003 - books.google.com

... M DM c C H2 D5 D6 **Object** (s) D26 ... In face-to-face **collaboration**, deixis was accomplished

quite ... of the representations seemed to play this **role** most effectively ...

[Cited by 36](#) · [Related articles](#) · [Web Search](#) · [All 4 versions](#)

[PDF] •UML for real-time overview

A Lyons · Objecttime Ltd, 1998 - uml.org.cn

... **Collaboration** diagrams are used to describe the structural ... the outside world—it is

an **object** that implements a ... interfaces; each tailored to a specific **role**. ...

[Cited by 70](#) · [Related articles](#) · [View as HTML](#) · [Web Search](#) · [All 3 versions](#)

Design of a policy-driven middleware for secure distributed collaboration- *psu.edu [PDF]

AR Tripathi, T Ahmed, R Kumar, S Jaman · Distributed Computing Systems, 2002. Proceedings, 22nd ..., 2002 - ieeeexplore.ieee.org

... as **role** based security, **object** level access control, and event notification for

coordination. Finally, through these modules, the **collaboration** environment is ...

[Cited by 24](#) · [Related articles](#) · [Web Search](#) · [PL Direct](#) · [All 15 versions](#)

[PDF] •The role of grounding in collaborative learning tasks

M Baker, T Hansen, R Joiner, D Traum · Collaborative learning: Cognitive and computational ..., 1999 - citeseerx.ist.psu.edu

... begin by discussing the elements of our **object** of study (grounding, **collaboration**,

learning) and ... work to achieve a perspective on the **role** of grounding ...

[Cited by 183](#) · [Related articles](#) · [View as HTML](#) · [Web Search](#) · [All 13 versions](#)

Specification of secure distributed collaboration systems- *umn.edu [PDF]

AR Tripathi, T Ahmed, R Kumar · Autonomous Decentralized Systems, 2003. ISADS 2003. The ..., 2003 - ieeeexplore.ieee.org

... user-user conflict, user-**role** conflict, **object** based separation of duty, and

operational separation of duty. A specification model for **collaboration** has to ...

[Cited by 22](#) · [Related articles](#) · [Web Search](#) · [All 10 versions](#)

[PDF] •An editing-based characterization of the design space of collaborative applications

P Dewan, P Choudhary, H Shen · Journal of Organizational Computing, 1994 - citeseerx.ist.psu.edu

... com- mon **object** perception" level in Malone and Crowston's **collaboration**

hierarchy of coordination, group decision making ...

[Cited by 48](#) · [Related articles](#) · [View as HTML](#) · [Web Search](#) · [PL Direct](#) · [All 7 versions](#)

[PDF] •UML profile for aspect-oriented software development

O Aldawud, T Elrad, A Bader - Proceedings of Third International Workshop on Aspect- ... 2003 - citeseerx.ist.psu.edu
... of an association as used in the **collaboration**. ... with Preactivation and the association
end **role** can be ... statecharts [6] for the intra-**object** behavior modeling. ...
[Cited by 79](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 6 versions](#)

Objects, contradictions and collaboration in medical cognition: an activity-theoretical perspective

Y Engeström - Artificial Intelligence in Medicine, 1995 - Elsevier
... analysis of clinical cognition: orientation to **objects** in cognition, **role** of
contradictions in cognition, and the importance of **collaboration** in cognition. ...
[Cited by 56](#) - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

[PDF] •Task-oriented collaboration with embodied agents in virtual worlds

J Fickel, WL Johnson - Embodied conversational agents, 2000 - isi.edu
... To support the needs of task-oriented **collaboration** and exploit the **roles** for nonverbal
communication outlined in ... Move to an **object**: To guide the ...
[Cited by 115](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 7 versions](#)

Some issues of role-based collaboration - •nipissingu.ca [PDF]

H Zhu - Electrical and Computer Engineering, 2003 IEEE CCECE 2003. ... 2003 - ieeeexplore.ieee.org
... In summary, in a **role-based** collaborative system, there are ... An **object** is used to
express everything in a ... user is a person who is participating in **collaboration**. ...
[Cited by 8](#) - [Related articles](#) - [Web Search](#) - [All 7 versions](#)

A policy based role object model - •psu.edu [PDF]

E Lupu, M Stoman - Enterprise Distributed Object Computing Workshop [1997]. ... 1997 - ieeeexplore.ieee.org
... to ordering of activities regarding **role** interactions. ... subject" to refer to an **object**
representing ... degree of inter-personnel **collaboration** and standardised ...
[Cited by 25](#) - [Related articles](#) - [Web Search](#) - [All 14 versions](#)

A conceptual foundation of the thinkLet concept for Collaboration Engineering

GL Koifschoten, PO Briggs, GJ De Vreede, PHM ... - International Journal of Human-Computer Studies, 2006 - Elsevier
... **Object** orientation 3.2. The ThinkLet class diagram 3.2.1. **Collaboration** process
3.2.2. Participant 3.2.3 ... 5. Action 3.2.6. Rule 3.2.7. Parameter 3.2.8. **Role** 3.2.9 ...
[Cited by 22](#) - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

A radical revision of UML's role concept - •fernuni-hagen.de [PDF]

F Steimann - Lecture notes in computer science, 2000 - Springer
... Finally the **collaboration roles**. ... which is still predominating in the **object-oriented**
world ... Thus, only one base classifier is listed with each classifier **role**. ...
[Cited by 55](#) - [Related articles](#) - [Web Search](#) - [PL Direct](#) - [All 10 versions](#)

[PDF] •Working with objects: the OOram software engineering method

T Reenskaug, P Wold, OA Lehne - 1996 - folk.uio.no
... In our simple example, one **object** will play the **role** of dining room, another
the **role** of kitchen, etc. ... An **object** can play several **roles**. ...
[Cited by 343](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 4 versions](#)

[PDF] •Learning object evaluation: computer-mediated collaboration and inter-rater reliability

J Vargo, JC Nesbit, K Baffer, A Archambault - International Journal of Computers and Applications, 2003 - elera.net
... COMPUTER-MEDIATED **COLLABORATION** ... of learning **objects** and repositories, and their **role**
in Web ... information revolution has spawned the learning **object**, the cyber ...
[Cited by 73](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [PL Direct](#) - [All 7 versions](#)

Team-based access control (TMAC): a primitive for applying role-based access controls in ...

RK Thomas · ... of the second ACM workshop on **Role-based access control**, 1997 · portal.acm.org

... A special **role** called team head (h), where $h \in TR$... A **collaboration** context that consists

of the following two components ... where $UC : TR \times TU \rightarrow An$ **object** context (OC ...

[Cited by 122](#) · [Related articles](#) · [Web Search](#) · [All 2 versions](#)

Dynamically composable collaborations with delegation layers- *tu-darmstadt.de (PDF)

K Ostermann · Lecture Notes in Computer Science, 2002 · Springer

... In the early days of **object-oriented** programming there has been a general ... has developed

a great deal of models related to **collaboration-** or **role-model** based ...

[Cited by 56](#) · [Related articles](#) · [Web Search](#) · [EI Direct](#) · [All 13 versions](#)

Agent role-based collaboration and coordination: a survey about existing approaches- *unimo.it (PDF)

G Cabri, L Ferrari, L Leonardi · 2004 IEEE International Conference on Systems, Man and ..., 2004 · ieeeexplore.ieee.org

... several approaches related to agent **collaboration** and coordination ... have been already

exploited in **Object Oriented** approaches, where a **role** is defined ...

[Cited by 24](#) · [Related articles](#) · [Web Search](#) · [All 9 versions](#)

Improving the quality of business object models using collaboration patterns

N Boliuj · Communications of the ACM, 2004 · portal.acm.org

... that problem in its original **object** model by ... former team tried to represent

collaboration between Location ... represent a Supplier-Item (**role-thing**) **collaboration** ...

[Cited by 11](#) · [Related articles](#) · [Web Search](#) · [EI Direct](#) · [All 9 versions](#)

Roles for composite objects in object-oriented analysis and design- *wfiles.com (PDF)

F Civallo · ... annual conference on **Object-oriented** programming systems, ..., 1993 · portal.acm.org

... emphasize their essential **role** in the association. We call the whole **object**

an assembly, although no physical existence is implied. ...

[Cited by 27](#) · [Related articles](#) · [Web Search](#) · [Library Search](#) · [EI Direct](#) · [All 3 versions](#)

Strategy for collaboration in robot soccer- *massey.ac.nz (PDF)

HL Sng, G Messom, CHS Polytech · Electronic Design, Test and Applications, 2002. Proceedings. ..., 2002 · ieeeexplore.ieee.org

... used, see equation 4. If there is an **object** which is ... order among the robots to the

role of "attack ... The **collaboration** between players is achieved through the ...

[Cited by 29](#) · [Related articles](#) · [Web Search](#) · [All 6 versions](#)

Virtual object manipulation on a table-top AR environment- *washington.edu (PDF)

H Kato, M Billingham, I Poupyrev, K Imamoto, K ... · IEEE and ACM International Symposium on Augmented Reality, ..., 2000 · ieeeexplore.ieee.org

... a different viewpoint into the model, just as if they were seeing a real **object** ...

each other and the real world, ensuring a very natural **collaboration** and flow ...

[Cited by 201](#) · [Related articles](#) · [Web Search](#) · [All 15 versions](#)

HL7 version 3—An object-oriented methodology for collaborative standards development- *mums.ac.ir (PDF)

GW Beeler · International Journal of Medical Informatics, 1998 · Elsevier

... set of interactions where the **role** has the ... suitable for communication with **object**

middleware (such ... Features of Version 3 that favor international **collaboration** ...

[Cited by 63](#) · [Related articles](#) · [Web Search](#) · [EI Direct](#) · [All 7 versions](#)

Collaborative augmented reality- *washington.edu (PDF)

M Billingham, H Kato · Communications of the ACM, 2002 · portal.acm.org

... In many cases, the surrounding physical world and **objects** also play an important

role, particularly in design and spatial **collaboration** tasks. ...

[Cited by 95](#) · [Related articles](#) · [Web Search](#) · [EI Direct](#) · [All 22 versions](#)

Strengthening UML collaboration diagrams by state transformations- *uni-paderborn.de [PDF]

R Heckel, S Sauer - Lecture notes in computer science, 2001 - Springer
... type-compatible, ie, if a classifier **role** is mapped ... In our **collaboration** diagrams, this concept of graphical ... used to express visual queries on **object** structures ...
[Cited by 14](#) - [Related articles](#) - [Web Search](#) - [PL Direct](#) - [All 21 versions](#)

Object-oriented conceptual modeling for commitment-based collaboration management in virtual ...

J Lin, T Lin - Information and Software Technology, 2004 - Elsevier
... paper, we propose an **object-oriented** modeling ... those required mechanisms for **collaboration** management into three layers: commitment, **role**, and activity ones ...
[Cited by 10](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Access control for collaborative environments- *serc.net [PDF]

HH Shen, P Dewan - Proceedings of the 1992 ACM conference on Computer-supported ..., 1992 - portal.acm.org
... **roles** simultane- ously and change these **roles** dynamically during ... users should be protected by **collaboration** rights. ... access right of each user on each **object**. ...
[Cited by 258](#) - [Related articles](#) - [Web Search](#) - [All 19 versions](#)

A flexible object merging framework- *psu.edu [PDF]

JP Munson, P Dewan - Proceedings of the 1994 ACM conference on Computer supported ..., 1994 - portal.acm.org
... Merging is primarily useful where the coupling between views, or versions, of an **object** allow asynchronous **collaboration**. Concurrent ...
[Cited by 103](#) - [Related articles](#) - [Web Search](#) - [All 14 versions](#)

Associations: abstractions over collaboration- *adu.dk [PDF]

BB Kristensen - IEEE International Conference on Systems, Man and ..., 2003 - ieeeexplore.ieee.org
... Abstractions over certain aspects of an **object**-as for example the **collaboration** of the **object** with other **objects** or the **objects' role** towards other objects ...
[Cited by 9](#) - [Related articles](#) - [Web Search](#) - [PL Direct](#) - [All 3 versions](#)

One-hundred days in an activity-centric collaboration environment based on shared objects- *psu.edu [PDF]

MJ Muller, W Geyer, B Brownholtz, E Wilcox, DR ... - Proceedings of the SIGCHI conference on Human factors in ..., 2004 - portal.acm.org
... **Collaboration** in these "shared email solutions" is entirely ... Threads However, these analyses of **objects** have been ... can obscure the important **role** played by ...
[Cited by 50](#) - [Related articles](#) - [Web Search](#) - [All 7 versions](#)

Towards a UML based approach to role engineering- *profsandhu.com [PDF]

P Epstein, R Sandhu - ... of the fourth ACM workshop on Role-based access control, 1999 - portal.acm.org
... RBAC model components that require **Role** Engineering can ... that can document the system: Class, **Object**, Use Case, Sequence, **Collaboration**, Statechart, Activity ...
[Cited by 51](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

Inter-enterprise collaboration management in dynamic business networks

L Kutvonen, J Metso, T Ruokolainen - Lecture notes in computer science, 2005 - Springer
... business network models associate **roles** with required ... The resulting eCommunity contract **object** is an ... shared storage of business **collaboration** information that ...
[Cited by 22](#) - [Related articles](#) - [Web Search](#) - [PL Direct](#) - [All 2 versions](#)

Leveraging single-user applications for multi-user collaboration: the cword approach- *unice.fr [PDF]

S Xia, D Sun, C Sun, D Chen, H Shen - Proceedings of the 2004 ACM conference on Computer supported ..., 2004 - portal.acm.org
... capabilities and plays a central **role** in adapting ... manipulate various types of data **object** transparently ... The **Collaboration** Policy (CP) module is responsible for ...
[Cited by 51](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

[Representing agent interaction protocols in UML - *kfupm.edu.sa \[PDF\]](#)

J Odell, H Van Dyke Parunak, B Bauer - Lecture Notes in Computer Science, 2001 - Springer

... leveraging UML's existing name/role/class syntax in conjunction with **collaboration** diagrams ... In the eighties, **object-oriented** (OO) languages experienced ...

[Cited by 355](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 32 versions](#)

[\[PDF\] *Concordia: An infrastructure for collaborating mobile agents](#)

D Wong, N Pacioret, T Walsh, J DiCelle, M Young, B ... - Lecture Notes in Computer Science, 1997 - merl.com

... each agent "arrive" at the **collaboration** point (by invoking the collaborate method on the AgentGroup distributed **object**) before **collaboration** may commence. ...

[Cited by 251](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - [All 3 versions](#)

[\[PDF\] *Role-based access control \(RBAC\): Features and motivations](#)

D Ferraiolo, J Cugini, DR Kuhn - Proceedings of 11th Annual Computer Security Application ... , 1995 - csrc.nist.gov

... requested for execution, and/or the **object** which is ... for the subject's proposed active **role** is provided by ... that fraud can occur if **collaboration** exists between ...

[Cited by 442](#) - [Related articles](#) - [Web Search](#) - [All 13 versions](#)

[Quilt: a collaborative tool for cooperative writing](#)

RS Fish, RE Kraut, MDP Leland - ACM SIGOIS Bulletin, 1988 - portal.acm.org

... sees indications of those annotations that his **role** permits him ... of the types defined in the **collaboration** style ... Each Link **Object** also has attributes for the two ...

[Cited by 173](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[Uml collaboration diagrams and their transformation to java- *uni-paderborn.de \[PDF\]](#)

G Engels, R Hocking, S Sauer, A Wagner - Lecture notes in computer science, 1999 - Springer

... with the **role** name sender is bent, now connecting ClassifierRole and **Collaboration**: The sender for messages within this **collaboration** is the target **object** on ...

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[\[PDF\] *Haptic collaboration over the internet](#)

JP Heespanha, M McLaughlin, GS Sukhatme, M Akbarian ... - Fifth Phantom Users Group Workshop, Aspen, CO, 2000 - andrew.cmu.edu

... databases: the node and the **object** databases. ... the necessary entities to achieve networked **collaboration** with disparate ... and MA Srinivasan, "The **Role** of Haptic ...

[Cited by 50](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 9 versions](#)

[Separation of concerns in multi-agent systems: An empirical study- *ufba.br \[PS\]](#)

A Garcia, O Sant Anna, C Chavez, VT da Silva, CJP ... - Lecture notes in computer science, 2004 - Springer

... such as agent types, autonomy, adaptation, **collaboration**, and **roles**. Many MAS concerns are different from classical concerns addressed in **object-oriented** (OO) ...

[Cited by 55](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 11 versions](#)

[\[book\] Testing object-oriented systems: models, patterns, and tools](#)

R Binder - 1999 - books.google.com

... Element Properties 274 8.2.2 **Object** Constraint Language ... 8.7 Statechart Diagram 297

8.8 **Collaboration** Diagram 297 8.8 ... Testing 317 9.1.1 The **Role** of Responsibility ...

[Cited by 926](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 4 versions](#)

[How people use orientation on tables: comprehension, coordination and communication- *ucalgary.ca \[PDF\]](#)

R Kruger, S Carpendale, SD Scott, S Greenberg - Proceedings of the 2003 international ACM SIGGROUP ... , 2003 - portal.acm.org

... it altogether. It is this issue of **object** orientation and its **role** in **collaboration** that is the focus of this paper. Our goal is ...

[Cited by 70](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

[... modeling and content analysis to investigate computer-supported collaboration in small groups- *pub.nl \(PDF\)](#)

JW Strybos, PL Martens, WMJ Jochems, NJ Broers - Small Group Research, 2004 - sgr.sagepub.com

... **collaboration** will be investigated, as well as the suggestion by Mudrack and Farrell (1995) that individual and group perception will be more unanimous in the **role** ...

[Cited by 39](#) - [Related articles](#) - [Web Search](#) - [PL Direct](#) - [All 9 versions](#)

[Supporting activity-centric collaboration through peer-to-peer shared objects- *ibm.com \(PDF\)](#)

W Geyer, J Vogel, LT Cheng, M Muller - portal.acm.org

... Under the unlikely event that a new peer late-joins an ongoing **collaboration** on a shared **object**, obtains the current state, and issues a state change ...

[Cited by 46](#) - [Related articles](#) - [Web Search](#) - [All 14 versions](#)

[Collaboration on reference to objects that are not mutually known- *upenn.edu \(PDF\)](#)

PG Edmonds - portal.acm.org

... It then switches **roles** to become the speaker, and ... it updates the state of the **collaboration**, presupposing that ... content uniquely describes an **object** that he ...

[Cited by 13](#) - [Related articles](#) - [Web Search](#) - [All 22 versions](#)

[\[PDF\] • Overview of human-computer collaboration](#)

LG Terveen - Knowledge Based Systems, 1995 - citeseerx.ist.psu.edu

... discusses the use of different **collaboration** modes { assignments of **roles** and responsibilities ... might choose shorter or longer **object** descriptions and ...

[Cited by 32](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 5 versions](#)

[Modeling collaboration using shared objects- *ucim.es \(PDF\)](#)

C Schuckmann, J Schümmer, P Seitz - Proceedings of the international ACM SIGGROUP conference on ..., 1999 - portal.acm.org

... the responsibility of the underlying shared **object** service ... of the collaborating team, different **collaboration** modes might ... for groups or a user-**role** modeling is ...

[Cited by 34](#) - [Related articles](#) - [Web Search](#) - [All 14 versions](#)

[UML-F: A modeling language for object-oriented frameworks- *tu-muenchen.de \(PDF\)](#)

M Fontoura, W Free, B Rump - Lecture Notes in Computer Science, 2000 - Springer

... UML-F: A Modeling Language for **Object**-Oriented Frameworks 73 ... class, SimpleSelect, which is marked by the {c-hook} tag to indicate that it plays the **role** of a ...

[Cited by 62](#) - [Related articles](#) - [Web Search](#) - [PL Direct](#) - [All 32 versions](#)

[Role model designs and implementations with aspect-oriented programming- *umassd.edu \(PDF\)](#)

EA Kendall - ... SIGPLAN conference on **Object**-oriented programming, systems, ..., 1999 - portal.acm.org

... a **role**, and an arrow depicts a **collaboration** path between ... 1261 During design, the **roles** in a **role** model are ... to **objects** in an application; an **object** plays or ...

[Cited by 135](#) - [Related articles](#) - [Web Search](#) - [PL Direct](#) - [All 7 versions](#)

[Issues in the design of computer support for co-authoring and commenting- *washington.edu \(PDF\)](#)

CM Neuwirth, DS Kauter, R Chandhok, JH Morris - Proceedings of the 1990 ACM conference on Computer-supported ..., 1990 - portal.acm.org

... It is then possible in Quilt to specify which **roles** can perform which actions on the various **objects**. Quilt further defines three **collaboration** types: exclusive ...

[Cited by 243](#) - [Related articles](#) - [Web Search](#) - [All 6 versions](#)

[Collaboration in a virtual world: support for conceptual learning?](#)

P Bina, R Aspin - Education and Information Technologies, 1993 - Springer

... Additionally, the elasticity of each **object**, and the friction between each ball and the ground can be ... **Collaboration** and learning: **Role** playing in ...

[Cited by 22](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 2 versions](#)

[PDF] •Design of collaboration-support tools for group problem solving

C Fidas, V Komis, NM Avouris - Proceedings PC HCI, 2001 - modelingspace.atosorigin.es
... semantic diagrams that play an important **role** in collaborative ... In figure 1, the **collaboration** space is shown ... two sides, the libraries of **objects** and libraries ...
[Cited by 20](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 2 versions](#)

Making space for voice: Technologies to support children's fantasy and storytelling- •psu.edu [PDF]

J Cassell, K Ryokai - Personal and Ubiquitous Computing, 2001 - Springer
... mode where the computer plays the **role** of an ... animal is the fantasy imaginative **object** that becomes ... The **collaboration** between child, computer and stuffed animal ...
[Cited by 54](#) - [Related articles](#) - [Web Search](#) - [BI Direct](#) - [All 6 versions](#)

[PDF] •... systems as complex networks: Structure, function, and evolvability of software collaboration graphs

CR Myers - PHYSICAL REVIEW E Phys Rev E, 2003 - tc.cornell.edu
... This work addresses static class **collaboration** graphs arising in OO ... and their interactions play a central **role** ... An **object** representing a vector field, for ...
[Cited by 71](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 7 versions](#)

[PS] •Studierstube-an environment for collaboration in augmented reality

D Schmalstieg, A Fuhrmann, Z Szalavari, M Gervautz - CVE'96 Workshop Proceedings, 1996 - cg.tuwien.ac.at
Page 1. "Studierstube" - An Environment For **Collaboration** in Augmented Reality ...
therefore easily possible for a work group to discuss the viewed **object** ...
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Tangible interfaces for remote collaboration and communication- •nus.edu.sg [PDF]

S Brave, H Ishii, A Dahley - Proceedings of the 1998 ACM conference on Computer supported ... , 1998 - portal.acm.org
... also plays an important **role** in interpersonal ... called Synchronized Distributed Physical **Objects** which enables ... real-time remote **collaboration** and communication ...
[Cited by 181](#) - [Related articles](#) - [Web Search](#) - [All 12 versions](#)

Context-dependent access control for web-based collaboration environments with role-based approach- •psu.edu [PDF]

R Wolf, M Schneider - Lecture notes in computer science, 2003 - Springer
... operation on a specific **object**, the requested ... access control for **collaboration** environments using the RBAC approach ... 4.1 introduces a sample **role** hierarchy for a ...
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Java's role in distributed collaboration

M Chen, J Cowie - Concurrency: Practice and Experience, 1997 - interscience.wiley.com
... The test and validation **role** forms another primary task within the **collaboration**; success or ... At all times, control over source and **object** code remains ...
[Cited by 11](#) - [Related articles](#) - [Web Search](#) - [BI Direct](#) - [All 5 versions](#)

Assessing the value of a cursor pointing device for remote collaboration on physical tasks- •cmu.edu [PDF]

SR Fussell, LD Setlock, EM Parker, J Yang - portal.acm.org
... referent identification by participant **role** and media ... in three phrases: identifying **objects**/locations, explaining ... benefits for remote **collaboration** on physical ...
[Cited by 20](#) - [Related articles](#) - [Web Search](#) - [All 10 versions](#)

Gestures over video streams to support remote collaboration on physical tasks- •cmu.edu [PDF]

SR Fussell, LD Setlock, J Yang, J Ou, E Mauer, ADI ... - Human-Computer Interaction, 2004 - portal.acm.org
... Such tasks play an important **role** in many ... Observational studies of physical **collaboration** suggest that ... the identification of target **objects**, descriptions of ...
[Cited by 45](#) - [Related articles](#) - [Web Search](#) - [BI Direct](#) - [All 11 versions](#)

Capturing dynamic program behaviour with UML collaboration diagrams - [psu.edu \(PDF\)](#)

R Kollmann, M Gogolla - Software Maintenance and Reengineering, 2001. Fifth European ..., 2001 - [ieeexplore.ieee.org](#)

... For each **object**, the **collaboration** con- text is shown and also, the methods called

at other **objects** are displayed in temporal order of their invocation. ...

[Cited by 32](#) - [Related articles](#) - [Web Search](#) - [All 11 versions](#)

[PDF] •Extending UML for agents

J Odell, HVD Parunak, B Bauer - Ann Arbor - [ajcastro.com](#)

... design mechanisms for agents and for **objects** is shared by ... with strong links to

UML's **collaboration** diagrams, as ... an agent playing a specific **role** (as distinct ...

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